

Supplementary Table 1. Association between hot flashes and FMD, AC, and CAC, stratified by menopausal status

| | FMD | AC | CAC |
|----------------------|---------------|-------------------|--------------------|
| | b (SE)§ | OR (CI)§ | OR (CI)§ |
| | N | N | N |
| Premenopausal | -2.01 (1.48) | 2.03 (0.49-8.38) | 9.85 (1.58-61.46)* |
| | N=40 | N=42 | N=43 |
| Early perimenopausal | -1.83 (0.63)* | 1.47 (0.88-2.46) | 1.45 (0.84-2.48) |
| | N=162 | N=217 | N=217 |
| Late perimenopausal | 0.50 (1.28) | 1.86 (0.59-5.91) | 3.02 (0.90-10.11)† |
| | N=40 | N=49 | N=50 |
| Postmenopausal | -0.45 (0.84) | 2.32 (1.16-4.65)* | 1.11 (0.56-2.22) |
| | N=86 | N=134 | N=134 |
| Indeterminate | -0.50 (1.41) | 1.18 (0.22- 6.44) | 1.22 (0.18-8.35) |
| | N=24 | N=23 | N=23 |

Models adjusted for age, race, and site

*p<0.05

†p<0.10

§ Regression coefficient, OR for any vs. no hot flashes

|| Modeled as any vs. none CAC due to small cell sizes

Supplementary Table 2. Association between hot flashes and FMD, AC, and CAC, stratified by tertile of age

| | FMD | AC | CAC |
|-----------|---------------|-------------------|------------------|
| | b (SE)§ | OR (CI)§ | OR (CI)§ |
| | N | N | N |
| Age 45-48 | -1.87 (0.73)* | 1.33 (0.72-2.48) | 1.57 (0.80-3.10) |
| | N=109 | N=143 | N=143 |
| Age 49-51 | -0.23 (0.66) | 1.84 (1.01-3.37)* | 1.62 (0.87-3.04) |
| | N=133 | N=158 | N=158 |
| Age 51-58 | -0.86 (0.76) | 1.66 (0.93-2.99)† | 1.37 (0.77-2.45) |
| | N=110 | N=164 | N=164 |

Models adjusted for age, race, and site

*p<0.05

†p<0.10

§ Regression coefficient, OR for any vs. no hot flashes

Supplementary Table 3. Association between hot flashes and FMD, with and without HT users

| | FMD | | | |
|---------|--------------|------|--------------|------|
| | Total sample | | No HT users | |
| | N=352 | | N=307 | |
| | beta (SE)* | p | beta (SE)* | p |
| Model 1 | -1.01 (0.41) | 0.01 | -0.92 (0.44) | 0.04 |
| Model 2 | -1.02 (0.39) | 0.01 | -0.82 (0.42) | 0.05 |
| Model 3 | -0.99 (0.41) | 0.02 | -0.87 (0.45) | 0.05 |
| Model 4 | -0.97 (0.44) | 0.03 | -0.88 (0.48) | 0.07 |

* Regression coefficient for any vs. no hot flashes

Model 1: Age, site, race

Model 2: Model 1 covariates plus baseline lumen diameter, BMI, education, DBP, HT use

Model 3: Model 2 covariates plus menopausal status, HDL, LDL, triglycerides, glucose, diabetes history, lipid medication use, smoking status, physical activity

Model 4: Model 3 covariates plus timed blood draw, E2_{log}

Note: HT use not included as a covariate in models without HT users

Supplementary Table 4. Hot flashes and odds of aortic and coronary calcification, with and without HT users

| | Total sample | | | | Without HT users | | | |
|---------|--------------|------|--------------|------|------------------|------|--------------|------|
| | AC | | CAC | | AC | | CAC | |
| | N=464 | | N=466 | | N=412 | | N=414 | |
| | OR (CI)* | p | OR (CI)* | p | OR (CI)* | p | OR (CI)* | p |
| Model 1 | 1.55 | 0.01 | 1.48 | 0.03 | 1.55 | 0.02 | 1.49 | 0.04 |
| | (1.10-2.19) | | (1.04-2.12) | | (1.08-2.24) | | (1.01-2.18) | |
| Model 2 | 1.53 | 0.04 | 1.34 | 0.17 | 1.41 | 0.04 | 1.32 | 0.23 |
| | (1.02-2.29)† | | (0.88-2.05)‡ | | (0.92-2.17)† | | (0.84-2.08)‡ | |
| Model 3 | 1.53 | 0.04 | 1.33 | 0.19 | 1.41 | 0.12 | 1.32 | 0.24 |
| | (1.02-2.29)§ | | (0.87-2.03) | | (0.92-2.18)§ | | (0.83-2.09) | |
| Model 4 | 1.63 | 0.02 | 1.31 | 0.24 | 1.53 | 0.07 | 1.29 | 0.29 |
| | (1.07-2.49) | | (0.84-2.05) | | (0.97-2.42) | | (0.80-2.09) | |

* OR for any vs. no hot flashes

Model 1: Age, site, race

Model 2a: †Model 1 covariates plus BMI, smoking, education, SBP, LDL, HDL, triglycerides, glucose, physical activity, antidepressant use, depressive symptoms, HT use, lipid medication use, menopausal status

Model 2b: ‡Model 1 covariates plus BMI, education, SBP, LDL, HDL, triglycerides, glucose, diabetes history, antidepressant use, depressive symptoms, HT use, menopausal status

Model 3a: §Model 2a covariates plus diabetes history

Model 3b: ||Model 2b covariates plus diabetes history, smoking, physical activity, lipid medication use

Model 4: Model 3 covariates plus $E2_{log}$, blood draw timing

Note: HT use not included as a covariate in models without HT users

Supplementary Table 5. Associations between hot flashes and FMD, AC, and CAC, stratified by race

| | FMD | AC | CAC |
|------------------|---------------|-------------------|-------------------|
| | b (SE)§ | OR (CI)§ | OR (CI)§ |
| | N | N | N |
| Caucasian | -0.89 (0.48)† | 1.61 (1.05-2.47)* | 1.68 (1.07-2.63)* |
| | N=232 | N=306 | N=308 |
| African American | -1.22 (0.76)† | 1.52 (0.84-2.75) | 1.27 (0.71-2.28) |
| | N=120 | N=159 | N=159 |

Models adjusted for age and site

*p<0.05

†p≤0.10

§ Regression coefficient, OR for any vs. no hot flashes